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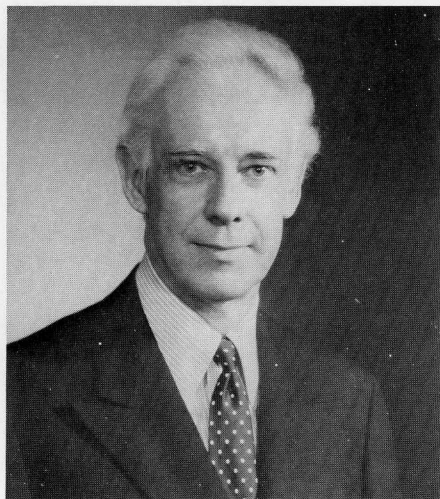
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THE ROCKEFELLER UNIVERSITY

news and notes

STANFORD MOORE 1913-1982



Stanford Moore in 1972.

Stanford Moore, biochemist and John D. Rockefeller Jr. Professor, died on August 23 at his home. He would have been 69 on September 4. He had been suffering for many months from amyotrophic lateral sclerosis.

The scientific achievements of Stanford Moore and his longtime colleague, William H. Stein, who died in 1980, earned them the Nobel Prize in Chemistry in 1972 and the admiration of scientists all over the world. The qualities of caring that Dr. Moore brought to his relationship with The Rockefeller University and its people live in personal memories of kindnesses large and small. His quick, wide smile brightened this campus for 43 years.

First and foremost a scientist, he said on many occasions: "My vocation is my life. I can think of nothing I would rather do than to solve the problems on the biochemical horizon." Happiest in the laboratory, he spent some part of every day at his bench, up to a few days before his death. Nonetheless, he gave unstintingly of his time and energy to important University activities. During the past decade, his eloquence helped make the University's mission vivid and immediate to many who have since become its friends and benefactors.

Dr. James Manning, a member of the Moore-Stein laboratory since 1966, recalled: "Dr. Moore was an ardent proponent of the free exchange of scientific information at Rockefeller and worldwide. Laboratory and office doors were never locked because he felt that one of his missions in life was to conduct science in an unrestricted and gentlemanly fashion. He especially savored the open dialogues that he shared over lunch with the

members of other laboratories. As he presided at these forums, his many talents emerged — his great scientific acumen blended with style and wit. He enjoyed having varied questions posed to him and, for us, the loss would have been even greater if we had not been exposed to his rare ability to listen, analyze, and suggest solutions."

Dr. Moore never married. This institution was his family and he left his estate to the University. In a letter to President Lederberg, written when he knew his illness was progressing rapidly, he stated: "I would like, to the best of my modest ability, to help a young scholar have the same opportunity that I had."

Dr. Moore's research dealt with the relationships between the chemical structure of proteins and their biological activities. He and Dr. Stein were major contributors to the development of quantitative chromatographic procedures for the separation of amino acids, the basic units of proteins. Chromatography, a technique for separating biological entities, had been developed in the early part of the century, but for amino acids it remained a qualitative manual technique until Dr. Moore

(continued on page 6)

Nils A. Jernberg Dies



Nils Jernberg in 1964.

The University community was saddened this summer by the sudden death, on July 9, of Nils A. Jernberg, 61, instrument design engineer and head of the University's world-acclaimed instrument shop since 1954.

Born in Sweden, Mr. Jernberg began his apprenticeship, at the age of 14, in the instrument shop of the University of Lund. After service in the Swedish Royal Air Force, he studied electronics at the Technical Institute in Stockholm, graduating in 1947. He was brought to the United States in 1951 by Ivan Sorvall,

(continued on page 3)

Making A Good Place Better

In recent months, the campus grounds have looked as if giant moles had attacked and the University's buildings, especially Smith, Flexner, the Hospital, and the Tower, have reverberated with the drilling, hammering, and associated activities of a small army of construction workers.

Rockefeller is in the throes of the first phase of a comprehensive and much-needed program, authorized by the board of trustees, to improve physical facilities. According to Thomas P. McGinnity, director of physical services, "never in its history has the University undertaken so much renovation in such a short period of time."

In announcing the program, Dr. William O. Baker, board chairman, stated: "The nature of modern research requires that our highly gifted scientists have access to well-equipped space, the latest technology, and necessary support services."

Plans for the fiscal year that began July 1 call for continued renovation of space for the new laboratory groups joining the University's ranks, the upgrading of many existing labs and offices, as well as substantial improvements in essential electrical, ventilation, and waste disposal systems.

The overall cost of the University's current capital expenditure plans is estimated at \$20-25 million. To help the University pay these costs, \$7.9 million has been raised to date from foundations, corporations, and individual donors.

"These gifts and grants," says President Lederberg, "represent an impressive expression of faith by the private sector in the importance of the work of this institution, but a great deal more needs to be done to guarantee excellent facilities."

In addition to the thanks owed by the University to its donors, the campus community owes a special debt of gratitude to the men and women of plant operations who have been working under extraordinary pressure for many months, in cooperation with outside contractors, to get the job done. □

The old animal facility in Smith Hall annex after the guinea pigs moved out, as the A, B, and C floors are transformed into modern offices.

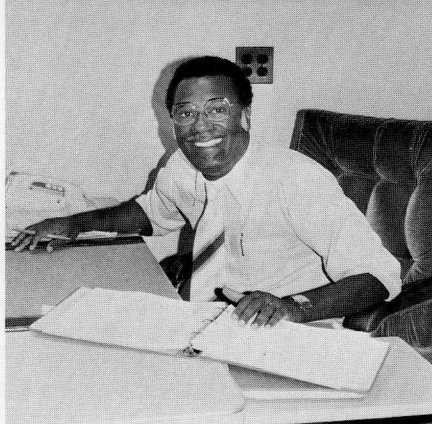


Expediting a Dream

For a long time, Sam Bispham of the University's purchase and supply service, who was born in Barbados, has nursed the dream that a facility like Rockefeller might be built to serve the nine million people of the Caribbean region where, as he knows from first-hand experience, "the need is very great."

This summer, Mr. Bispham's dream came a little closer to realization, due, in no small part, to him. During the week of July 3, the ministers of health of 15 Caribbean nations, at their annual meeting, passed a resolution to study the feasibility of establishing an institute for clinical research, medical education, and primary health care training. The resolution resulted from a proposal presented to the ministers by a consortium of representatives of the University of the West Indies, The Rockefeller University, Hunter College of the City University of New York, and the Caribbean Medical and Educational Foundation, of which Mr. Bispham is founder and executive director. The proposed institute would be located in the Eastern Caribbean area—the consortium is deliberating the appropriate site—with satellite technological and training facilities on some of the smaller islands.

The Caribbean Medical and Educational Foundation is a 146-member organization of doctors, scientists, and others in health-related fields, which grew from a nucleus of friends who shared Mr. Bispham's concerns. Two of those from Rockefeller, Professor John B. Zabriskie and Adjunct Professor Stanley E. Read, have worked for a number of years in a program in Trinidad, studying and treating streptococcal-related diseases, which are widespread in the West Indies.



Sam Bispham

Dr. Milton Haynes of Lenox Hill Hospital is the foundation's president and Professor Paul M. Lizardi of Rockefeller is vice president. Dr. Trevor Atherley of Beth Israel Hospital, Newark, and Dr. Carlton Blake of Mercy Hospital on Long Island and SUNY/Stony Brook, is vice chairman. Other Rockefeller people associated with the project are Research Associate Lennette Benjamin, Professors Clinton D. Brown, Anthony Cerami, Bruce S. McEwen, and Charles M. Peterson, and Adjunct Professors James G. Hirsch and Daniel B. Rifkin. Strong support has also come from a number of public officials and community leaders, including Representative Mervyn Dymally of California and former Congresswoman Shirley Chisholm.

Sam Bispham has worked tirelessly in pursuit of his dream. He has been a key figure in organizing foundation meetings and fund-raising events, some of which have been held at the University; and he has arranged fact-finding trips to the Caribbean for members of the group, supplying a hefty share of the expenses from his own pocket. His Rockefeller title in Purchase and Supply is expeditor. Its appropriateness would seem to extend beyond the campus. □

IN PRINT

Professor **M. A. B. Bég**, Theoretical Physics, contributed a chapter on Unified Gauge Theories to *l'Enciclopedia del Novecento*, a compendium of scientific knowledge of the 20th century, to be published by the Istituto della Enciclopedia Italiana, Rome.

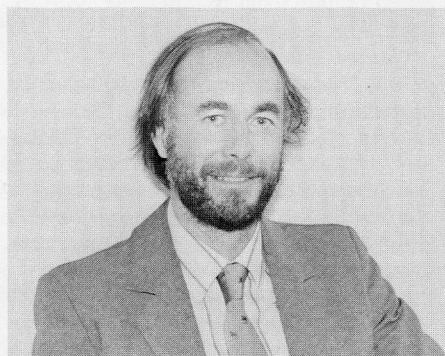
The Vasectomy Book: A Complete Guide to Decision Making by **Marc Goldstein**, associate physician at The Rockefeller University Hospital and assistant scientist, Population Council, and Dr. Michael Feldberg of Boston University, has been published by J. P. Tarcher, Inc., Houghton Mifflin Company. The book, which contains a foreword by Population Council Director **C. Wayne Bardin**, examines the benefits and risks of the vasectomy procedure.

Science at the Bedside: Clinical Research in American Medicine, 1905-45, a new book by A. McGehee Harvey, Distinguished Service Professor of Medicine of The Johns Hopkins University School of Medicine, and published by The Johns Hopkins University Press, includes a chapter, The Development of the Rockefeller Institute for Medical Research and Its Hospital.

Glimm to Courant

Professor James Glimm has left the University to become a professor at the Courant Institute of Mathematical Sciences. He retains an appointment at Rockefeller as adjunct professor. □

Cross Heads New Laboratory of Molecular Parasitology



George Cross

George A. M. Cross, formerly head of the department of immunochemistry and molecular biology at the Wellcome Research Laboratories of The Wellcome Foundation in England, has been appointed a professor at the University to head a new laboratory of molecular parasitology.

A native of Cheshire, England, Dr. Cross received a bachelor's degree in 1964 and a Ph.D. in biochemistry in 1968 from the University of Cambridge, where he

held a Medical Research Council Training Scholarship. He did postdoctoral work at Cambridge as an Imperial Chemical Industries Fellow and was a scientist in the Biochemical Parasitology Unit of The Medical Research Council from 1970 to 1977 before joining Wellcome.

He has been a consultant to The World Health Organization and the International Laboratory for Research on Animal Diseases, and is a member of the Biochemical Society (England), the Society for General Microbiology (England), the British Society for Immunology, and the British Society for Parasitology.

Parasitology has been an important area of research at Rockefeller since its founding, and one in which Rockefeller scientists have made critically important contributions. Revolutionary advances in biomedical research such as recombinant DNA technology have now made it possible to investigate parasitic organisms at the subcellular and molecular level.

Dr. Cross's major interest is in the metabolic, membrane, and genetic processes in disease-causing parasitic protozoa. He has mainly studied the African

trypanosomes, parasites that cause sleeping sickness in human beings, and particularly *Trypanosoma brucei*, which infects cattle. He has also directed research on malaria. While at the Wellcome Laboratories, his interest in cell surfaces and genetic expression led him to adopt recombinant DNA methods, which in turn led to his key role in the initiation of recombinant DNA research at The Wellcome Foundation. The continuation of this line of investigation at Rockefeller is expected to help provide information that may be useful for the development of chemical and immunological agents to fight parasitic infection.

Members of the molecular parasitology group will include Dr. Doris Culley, Dr. Michael Ferguson, Dr. Kasturi Haldar, and Dr. Michael Wallach.

Dr. Cross is one of a number of distinguished scientists who have recently joined or will soon join the University's faculty. Among them is Emil T. Kaiser, who will head a new laboratory of bioorganic chemistry and biochemistry. Dr. Kaiser's work will be described in the next issue of *news and notes*. □



Contes Appointed to New Post

Zachary Contes

Zachary J. Contes, housing officer of the University since 1969, has been appointed to the new post of director of housing and realty services.

Mr. Contes has major responsibility for the University's housing services, which provide on and off-campus housing in the Graduate Student's Residence, Sophie Fricke Hall, Sutton Terrace, and Faculty House, as well as guest accommodations in Abby Aldrich Rockefeller Hall. □

New Graduate Fellows

Ten new graduate fellows and six new biomedical fellows have joined the University's ranks.

The new Ph.D. fellows are:

Donald Allen, *Manhattan College*
Adrienne Bennett, *Vassar College*
Richard Breedon, *Kent State University*;
University of Rochester

Marion Freistadt, *University of California, Berkeley*

Ruth Montgomery, *University of Pennsylvania*

Hugh Robinson, *University of Cambridge*
Eletra Ronchi, *University of Rome*
Laura Russo, *University of California, San Diego*

Petar Simić, *University of Belgrade*
Richard Wozniak, *Michigan State University*

The new biomedical fellows are:

Andrew Blum, *Yale University*
Daniel Fisher, *Swarthmore College*
Sumi Koide, *Princeton University*
Michael McDevitt, *Case Western Reserve University*

Stephen Tatter, *University of Michigan*
Nancy Thomas, *University of Chicago* □

VOLUNTEERS NEEDED

The volunteer science-teaching program at P.S. 183 has been enormously successful. To keep it that way, the program needs more volunteers to teach 5th and 6th grade biology, chemistry, and physics. A few hours of your time is all it takes. Please call Dr. David Gadsby on extension 8617.

Stein Lecture

Sir David Phillips, Professor of Molecular Biophysics, University of Oxford, will deliver The William H. Stein Memorial Lecture on January 28. The Stein Lectures are named in honor of the internationally acclaimed Rockefeller biochemist.

The lecture will be presented at 3:45 in Caspary Auditorium as part of the regular Friday afternoon research colloquia open to all members of the University. □

JERNBERG continued from page 1

head of an instrument-making firm in Connecticut.

Mr. Jernberg was often and aptly called a master craftsman. Carl Tiden, his fellow instrument designer and shop colleague, described him as a man who was devoted to his work. That devotion engendered immense versatility, for each scientist who came to him brought a new and different set of problems.

In a piece written 20 years ago and still applicable, it was stated that the efforts of Mr. Jernberg and the instrument makers "enabled scientists... to extend the perceptions of their senses, to refine the precision of their manipulations, and to free their attention from routine for the pursuit of their most creative insights."

The members of Mr. Jernberg's family, his wife, Nora, daughters Elna Karina and Janinne, and sister Agnes, have asked *news and notes* to express their gratitude to the Rockefeller community for "their kindness and sympathy during our bereavement." □

APPOINTMENTS

Robert A. Vande Stouwe, Immunology, as assistant professor, effective July 1.

Susan C. Bock, Bioorganic Chemistry and Biochemistry, **Gail Burd**, Animal Behavior, and **Alice Bendix Gottlieb**, Immunology, as assistant professors, effective September 1.

Computing Services Teaches Nationwide Seminars

Dr. Melvin Ferentz, director of the University's computing services, is the course director for seminars being given all over the country on the concepts, functions, and applications of UNIX, a computing operating system developed by Bell Laboratories and used by the University.

The two-day seminars are taught on a rotational basis by Dr. Ferentz and Dr. Banvir Chaudhary and Dr. Armand Gazes, associate directors of computing services. The course is designed for programmers, systems analysts, technical specialists, and sales marketing personnel.

Dr. Ferentz, who joined the University in 1978, earlier had established one of the first UNIX installations outside of the Bell System at The City University of New York. Seven years ago, he organized the UNIX Users Group, which developed into the USENIX Association. In July, when he retired as treasurer and member of the board of directors, USENIX awarded him their first life membership and presented him with one of the few remaining first editions of the UNIX Programmers Manual. □

HONORS & AWARDS

Professor **Günter Blobel**, Cell Biology, is among five recipients of a 1982 Gairdner Foundation International Award for "outstanding contributions in the field of medical science," to be presented on October 29 by the Lieutenant Governor of Ontario at the University of Toronto, at the Gairdner Foundation Lectures. He is being honored for his work on the mechanism by which newly formed proteins are transported and secreted. Previous Rockefeller recipients include Professors **Christian de Duve**, **Vincent P. Dole**, **Henry G. Kunkel**, **Bruce Merrifield**, and **George Palade**.

Professor **Vincent P. Dole** and Senior Research Associate **Marie Nyswander**, Biology of Addictive Diseases, received the Nathan B. Eddy Memorial Award from the Canadian Commission on Problems of Drug Dependence. The gold medal was presented in Toronto on June 28.

Adjunct Professor **Bernice Grafstein**, professor of physiology, Cornell University Medical College, was named an Outstanding Woman Scientist by the Metropolitan New York Chapter of the Association of Women in Science. The award was presented on June 9 at the New York Academy of Sciences.

Professor **Emil T. Kaiser**, Bioorganic Chemistry and Biochemistry, has been named to the scientific advisory board of the Robert A. Welch Foundation of Houston.

Professor **Neal E. Miller**, Physiological Psychology, was elected to senior membership in the Institute of Medicine of the National Academy of Sciences.

Adjunct Professor **Heinz R. Pagels**, Theoretical Physics, is the recipient of the 1982 American Institute of Physics-United States Steel Foundation Science Writing Award in Physics and Astronomy for his book *The Cosmic Code: Quantum Physics as the Language of Nature* (Simon and Schuster), to be presented at the AIP's annual meeting of Corporate Associates in Albuquerque, New Mexico, October 14.

Professor **Alexander Tomasz**, Microbiology, received the 1982 Hoechst-Roussel Award for outstanding research in the field of antimicrobial chemotherapy, presented at the Interscience Conference of Antimicrobial Agents and Chemotherapy, October 4-6 in Miami Beach. At the award ceremony, Dr. Tomasz spoke on Susceptibility to Beta Lactam Antibiotics: from Molecular Targets to the Antibacterial Effects.

BOOK SALE

The Rockefeller University Children's School fall book sale will be held on November 17 and 18, from 8:30 A.M. to 5:30 P.M. in the Tower lobby. Good bargains and a good cause.

New Einstein Biography by Abraham Pais

In 1921, when told of an experiment someone had done which, if correct, would overthrow relativity theory, Albert Einstein responded: "Subtle is the Lord but malicious He is not."

Subtle Is the Lord... The Science and the Life of Albert Einstein is the title of a new book by Abraham Pais, published by Oxford University Press. Detlev W. Bronk Professor and a member of the University's theoretical physics group, Dr. Pais is a leading researcher in particle physics and quantum field theory. He is also a devoted scholar of the life and work of "that beautiful old man" whom he came to know in the last nine years of Einstein's life when both were working at the Institute of Advanced Study in Princeton.

In the 552-page volume, Dr. Pais discusses the concepts of the physical world at the time Einstein became a physicist and how he changed them. "The book is an open history," says the author, "because the questions raised by Einstein are still among those actively pursued in physics research today."

Dr. Pais' research included some 5000 pages of manuscripts, 3000 pages of notebooks and diaries, and 52,000 pages of correspondence housed in the Einstein Archives in Princeton. He also drew upon previously unreleased material from the Nobel Foundation which gives the background on why the Nobel Committee waited so long before awarding Einstein a Nobel Prize and why they did not award it for relativity. (An article by Dr. Pais titled "How Einstein Got the Nobel Prize," based on material from the book, appeared in July-August issue of *American Scientist*.) The book is a Main Selection of Macmillan Book Clubs Library of Science. □

Carl Tiden Heads Instrument Shop

Carl Tiden, a member of the instrument shop for over 28 years, has been promoted to instrument design engineer and head of the instrument shop. He succeeds Nils Jernberg, who died on July 9.

Carl Tiden came to the University as an instrument maker in 1954 at the invitation of his longtime friend Nils Jernberg, whom he worked with at Jarnhs Electronics in Sweden during the 1940s. Mr. Tiden, an instrument maker's apprentice at age 16, left Sweden and came to the United States in 1947, first settling in Chicago and then Denver before coming to the University. He was appointed assistant design engineer in 1962.

"Nils Jernberg's death shocked the University campus, says Vice President David Lyons. We are fortunate that he left as a legacy well-trained and dedicated craftsmen such as Carl Tiden to carry on the shop's tradition."



Rockefeller roadrunners. Left to right: Konstantin Goulianos, Peter Hotez, Carol DeBoer, Jose Santos, Jill O'Donnell-Tormey, Rick Bucala, Marc Goldstein, Eva Adamska, and Beth Naprstek.

Road Runners

After hours, 18 members of the University campus lace up their sneakers and become a team of road runners, competing in city-wide races. On August 4, four members of the team took first place in the nonprofit category of the Corporate Challenge, a three-and-a-half-mile race in Central Park sponsored by Manufacturers Hanover. They were Team Captain Jill O'Donnell-Tormey, Kathy Eaton, Jose E. Santos, and Gregory Snow.

Other team members are: Angel Abrahamson, Petra Abrahamson, Eve Adamska, Ann Allen, Pamela Billhuber, Richard Bucala, Carol DeBoeur, Marc Goldstein, Konstantin Goulianos, Peter Hotez, Beth Naprstek, Wesley Van Voorhis, David Weinstein, and Marget Witmer. □

PERSONALS

Assistant for Research **Maria Fazio**, Bacteriology and Immunology, was married on June 27 to Mike Z. Zanakakis, a Ph.D. candidate in neurophysiology at New Jersey Medical School.

Born June 8, to Professor **Nadia M. Nogueira**, Cellular Physiology and Immunology, and her husband, Robert Budny, a son, Daniel Robert, their second child.

William C. Steward, Development, was married on August 28 to Erica Lindberg, Sales Promotion and Licensing Administrator, Eden Toys, Inc.

DEATH

William B. Rose, 83, a physician in the Hospital from 1930 to 1931 who did biochemical research with Dr. Donald D. Van Slyke, on June 16.

Development and Public Affairs to Smith

The office of development and public affairs, including public information and *news and notes*, has moved from the Tower building to the C level of the newly renovated Smith Hall annex.

PROMOTIONS

Joseph R. Nevins, Molecular Cell Biology, to associate professor, effective July 1.

Richard Harlan and **Brenda Shivers**, Neurobiology and Behavior, to assistant professors, effective June 15.

M. K. Sardana, Metabolism-Pharmacology, **Thomas S. Soper**, Biochemistry, and **Nguyen Le Trang**, Medical Biochemistry, to assistant professors, effective July 1.

George Lazarides, Theoretical Physics, **Jerry Nedelman**, Populations, and **Peter M. Ross**, Investigative Dermatology, to assistant professors, effective September 1.

Kreek Chairs NIH Group in Support of Clinical Research

On July 1, Senior Research Associate Mary Jeanne Kreek, a member of the laboratory of the biology of addictive diseases and a physician at the Hospital, was appointed chairman of the General Clinical Research Centers Study Section of the National Institutes of Health. As such, she directs an 18-member group that bears sole responsibility for reviewing applications and approving all grants awarded by NIH to clinical research centers in the United States.

The group also reviews applications for grants to selected young investigators, under a program called Clinical Associate Physicians (CAP); and directs CLINFO, a computer information system for clinical investigators.

Before appointment to the chairmanship, Dr. Kreek served for three years as a member of the study section, which is comprised of leading researchers and physicians.

At present, there are 73 NIH-supported clinical research centers, including The Rockefeller University Hospital. They range from a few beds set aside for research purposes within a hospital to larger self-contained facilities. The 30-bed Rockefeller Hospital is one of the largest.

"These centers," says Dr. Kreek, "are unique in their role of fostering basic investigation and in the early translation of laboratory findings to the clinic; but like most federally funded programs, the GCRC Program, which is under the outstanding direction of Dr. William deCesare, is feeling the effects of financial constraints. Allocations have not kept up with inflation and the costs of the extraordinary new technologies for biomedical research. Twenty centers have had to be closed since the program's peak period in 1970. Needless to say, the GCRC Study Section feels an enormous sense of responsibility to make the best use of the funds available to us." □



On June 25, a science class from Public School 6 toured the University's Laboratory Animal Research Center with Director Dennis Stark. They also learned about X-rays from Professor Robert G. Lahita, immunologist and physician.



Campus bluegrass lovers got a treat when the "Southern Blots" (left to right: Jef Boeke who received his Ph.D. in June, Professor Sidney Strickland, and Doug Daly, a student at the Botanical Gardens) gave a performance at the Faculty Club on June 25.



The Eastside Biomedical Staffs for Nuclear Disarmament, made up of 250 people from the area hospitals, participating in the March for Nuclear Disarmament demonstration on June 12. The organization, which includes over 50 Rockefeller members, meets once a month. For further information call Dr. Steven Meshnick at 472-5935.

Captain Davis Retires; Edward Clarke Succeeds

Security Captain Robert Davis retired on August 31 after more than two decades of guarding the Rockefeller University campus. He has been succeeded by Edward G. Clarke, former commanding officer of the Bronx District Attorney's Investigative Squad.

Edward Clarke, left, and Captain Davis.



Left to right: Director of Dietetics Anne Brown, Administrative Secretary Patricia Macklin, and Orderly Isaias Coats congratulate Bertha Felder at her retirement party, August 27.

Switchboard Changes



Portia Goodman, seated, Jean Montalbano.

Switchboard Operator Jean Montalbano, who once left the University but came back 12 days later because she "missed it terribly," retired on July 29. Succeeding her is Portia Goodman, a switchboard operator whose broad experience includes service with the New York Telephone Company, Memorial Sloan-Kettering Cancer Center, and the Hospital for Special Surgery.

Mrs. Montalbano, a member of the University staff for 15 years, came to Rockefeller as a secretary in the Journals Office in 1967. She was appointed a secretary in the Hospital in 1972 and switchboard operator in 1979. "She was very dedicated to this place for many years," says Kathy Kleinbard, Hospital administrator.

Like her predecessor, Ms. Goodman will work closely with night operators Anna Kabatnik and James Wilson. □

Bertha Felder Retires

Bertha L. Felder, who began "only on trial" as a housekeeper in the Hospital 31 years ago, retired September 1 as a nurse's aide.

At her retirement party, Mrs. Felder was extolled for her kindness and humor. "She cared for many patients," said Professor Vincent P. Dole, "and treated all of them with dignity."

Mrs. Felder worked as an aide in a boarding home in her native South Carolina before joining the University. She was appointed ward helper in 1952 and nurse's aide in 1972.

She plans to make frequent visits to members of her family, who live throughout the United States. □

New Trustees

Howard Phipps, Jr., president of the New York Zoological Society, and Morris Schrier, legal consultant to MCA, Inc., have been elected to the University's board of trustees.

Mr. Phipps, who was graduated from Harvard University in 1955, is chairman of the board of Phipps Houses and is a director of Bessemer Securities Corporation, Bessemer Trust N.A., the Chamber Music Society of Lincoln Center, the Edward Noble Foundation, Inc., and Saint Catherine's Island Foundation, Inc.



Howard Phipps, Jr.



Morris Schrier

Mr. Schrier, a graduate of New York University and the Columbia University Law School, joined MCA in 1939 and was vice president and secretary from 1959 to 1979. He serves on the National Cancer Institute and is a member of the board of directors of United Cerebral Palsy Research and Educational Foundation, the Public Issues Committee of the American Cancer Society, and the New York Academy of Sciences.

Mr. Schrier is chairman of The Rockefeller University Associates Committee and was a member of The Rockefeller University Council from 1978 until his appointment as trustee. □

At the retirement party for Captain Robert Davis, right, on September 15, Professor and Mrs. Maclyn McCarty extend a fond farewell. Sharing in the excitement is Captain Davis's daughter, Mrs. Margarite McFadden.



BRIEFS

Professor **E. G. D. Cohen**, Theoretical Physics, delivered a keynote address on the Kinetic Theory of Non-Equilibrium Fluids at a conference on Nonlinear Fluid Behavior held in Boulder, Colorado, June 6-11, sponsored by the National Bureau of Standards and the University of Colorado.

Professor **Vincent P. Dole** and Senior Research Associate **Marie Nyswander**, Biology of Addictive Diseases, participated in an International Workshop on Addictive Behavior, held May 9-13 in Melbourne, Australia, where Dr. Dole delivered a major plenary paper on the Interplay of Laboratory and Clinic in the Study of Addictive Behavior. On May 20, he gave an invited talk on Narcotic Addiction as a Public Health Problem, in Sydney, under the sponsorship of the Wayback Committee of Sydney and the Drug and Alcohol Authority of New South Wales. On May 27, he gave the annual Leonard Ball Oration, an invited lecture at the Royal Australian College of Surgeons in Melbourne. He spoke on Addictive Behavior and the Art of Medicine.

Professor **Joan I. Morrell**, Physiological Psychology, was an invited speaker at the joint meetings of the American and Japanese Histochemical Societies, held at the University of British Columbia in Vancouver, July 20-24. Her talk, Steroid Hormone Autoradiography Used in Combination with Neuroanatomical Tracing Methods and Immunocytochemistry, was part of a workshop on New Approaches to Visualization of Drug and Hormone Receptors by Autoradiography.

Professor **Donald W. Pfaff**, Neurobiology and Behavior, gave an invited talk at the Laurentian Hormone Conference, held in Quebec August 29-September 3. His topic was Impact of Estrogens on Hypothalamic Neurons: Ultrastructural, Electrical, and Chemical Effects.

Professor **Samuel C. Silverstein**, Cellular Physiology and Immunology, gave an invited talk on Macrophages and How They Attack Bacteria and Tumors at a conference for science writers on immunology and genetics held September 20-21 at the University of Illinois, sponsored by the University of Illinois and the American Medical Association.

Zworykin Dies

Vladimir K. Zworykin, electronics engineer and former director of RCA Laboratories who pioneered in the development of television and encouraged the development of the electron microscope at RCA, died on July 29 at the age of 92. After retiring from RCA in 1954, he joined the Rockefeller as director of medical electronics, serving until 1962.

Dr. Zworykin was the recipient of 27 major awards, including the National Medal of Science, and was elected to the National Inventor's Hall of Fame. □

MOORE continued from page 1)

and Dr. Stein developed an automatic amino acid analyzer. This instrument is now widely used in laboratories around the world both for the study of the composition of a variety of proteins, including enzymes, hormones, and antibodies, and for the analysis of food and physiological fluids. (The University suffered another untimely loss in July, as reported in this issue, with the death of Nils Jernberg, head of the instrument shop, whose collaboration was vital to the development of the amino acid analyzer.)

In 1959, the Moore-Stein laboratory succeeded in working out the first complete description of the chemical structure of an enzyme and the largest protein to be decoded up to that time. The enzyme they deciphered was pancreatic ribonuclease, a substance that breaks down ribonucleic acid (RNA). They found that ribonuclease consists of a chain of 124 amino acids comprising 1876 atoms. They identified the amino acids and demonstrated how they fit together in the ribonuclease molecule. In recent years, Dr. Moore's laboratory had extended this line of research to the determination of the structure of pancreatic deoxyribonuclease, to the purification of nucleases from the brain, to study of the inhibitor of ribonuclease in the human placenta, and to selective hepatic uptake of glyco-ribonuclease. In regard to the last project, Dr. Moore spoke cautiously but hopefully of the possibility of applying its principle to the targeting of drugs to the liver in the treatment of cancer.

Born in Chicago in 1913, Stanford Moore grew up in Tennessee, where his father was a professor of law at Vanderbilt University. Dr. Moore earned a B.A. degree from Vanderbilt in 1935 and, in later years, served on its board of trustees. He did his doctoral work in organic chemistry at the University of Wisconsin.

He came to Rockefeller from graduate school in 1939, to the laboratory of the renowned German emigré biochemist Max Bergmann, who put him to work with another young postdoc, William Stein. After service in World War II and with Bergmann's death in 1944, Dr. Moore returned to become co-leader of the Moore-Stein laboratory and of the research that was to prove so fruitful for protein chemistry.

Dr. Moore earned many honors, including membership in the National Academy of Sciences. The University of Wisconsin, the University of Brussels, where he held the distinguished Franqui Chair in 1950-51, and the University of Paris bestowed honorary degrees on him. He and Dr. Stein shared the Richards Medal of the American Chemical Society and the Linderstrøm-Lang Medal, a Danish award. But for him the ultimate reward was truth. In an interview conducted some months ago and published shortly after his death, he was quoted as saying: "In this world there are so many things that are here today and gone tomorrow, the discovery of a basic truth that endures forever is one of the great satisfactions." □

Jay Weiss Reports on Depression Studies

For a number of years, Professor Jay M. Weiss, one of the University's physiological psychologists, has been investigating the role of stress in behavior. Recent research has shown that, in laboratory rats, severe and uncontrollable stress can lead to symptoms that closely mimic the symptoms of clinical depression in human beings. These animals, he believes, provide a good model for studying the specific neurochemical events that underlie depression.

On August 24, Dr. Weiss was an invited speaker at the annual convention of the American Psychological Association. At the meeting, he presented findings from his laboratory to support the idea that, as he stated, "severely stressful conditions bring about behavioral depression by causing large depletions of norepinephrine in the *locus coeruleus*, a change hypothesized to reduce norepinephrine release in the brain region and thereby block receptors in that region." The chemical norepinephrine is an important neurotransmitter which affects many nerve impulses in the brain; the *locus coeruleus* is a small collection of cells located at the top of the brainstem.

Dr. Weiss pointed out that the depletion of norepinephrine is not the only event that produces depression; other changes almost certainly involve other neurotransmitters, particularly serotonin. However, the depletion of norepinephrine in the *locus coeruleus* is "the critical first step in a sequence that leads to alteration of behavior."

Collaborating on this research are Professors William H. Bailey and Jonathan M. Charry; Assistant for Research Laura J. Hoffman; Monica J. Ambrose and Prudence A. Goodman, graduate students at New York University; and Sherry Salman, a graduate student at Queens College, CUNY. □

Thank You from Helene Jordan

Helene Jordan, who retired June 30 as director of The Rockefeller University Press, writes:

"This is a belated (because *news and notes* isn't published during the summer), but no less heartfelt thanks to all the friends and colleagues who made my June 22nd party a memorable one. I'm deeply grateful, and am most happy that all my relationships with The Rockefeller University are not ended." □

The new director of the Rockefeller University Press, Bradley Hundley, left, congratulates Helene Jordan at her retirement party.

